

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing Of Claims:**

1-13. (Canceled).

14. (Previously Presented) A method for rollover stabilization of a vehicle in a critical driving situation, comprising:

ascertaining a mass of the vehicle; and  
executing a rollover stabilization algorithm as a function of the mass of the vehicle,  
the rollover stabilization algorithm intervening in a driver operation in a critical situation  
using an actuator in order to stabilize the vehicle.

15. (Previously Presented) The method as recited in claim 14, wherein the mass of the vehicle is  
estimated using an algorithm.

16. (Previously Presented) The method as recited in claim 14, further comprising:

estimating information on a center of gravity of the vehicle, wherein the rollover  
stabilization algorithm is executed as a function of the vehicle mass and the information on  
the center of gravity of the vehicle.

17. (Previously Presented) The method as recited in claim 16, wherein the information on the  
center of gravity of the vehicle is derived from an estimated characteristic speed.

18. (Previously Presented) The method as recited in claim 16, wherein the information on the  
center of gravity of the vehicle is ascertained from a ratio of contact patch forces of opposite  
wheels during cornering.

19. (Previously Presented) The method as recited in claim 17, wherein the information on the  
center of gravity of the vehicle is ascertained from the estimated characteristic speed and from a  
ratio of the contact patch forces of opposite wheels during cornering.

**U.S. Patent Application No. 10/575,768**  
**Attorney Docket No. 10191/4217**  
**Response to Office Action of July 28, 2008**

20. (Previously Presented) The method as recited in claim 16, wherein one of an indicator variable or a characteristic property of the rollover stabilization algorithm is determined as a function of one of the mass of the vehicle or the mass of the vehicle and information on the center of gravity of the vehicle, the release of deactivation of the stabilization intervention being a function of the indicator variable.

21. (Previously Presented) The method as recited in claim 16, wherein one of a control threshold value, a system deviation or a controlled variable of the rollover stabilization algorithm is determined as a function of one of the mass of the vehicle or the mass of the vehicle and the information on the center of gravity of the vehicle.

22. (Previously Presented) A vehicle dynamics control system for rollover stabilization of a vehicle in a critical driving situation, comprising:

- a control unit in which a rollover stabilization algorithm is stored;
- a sensor system to record current actual values of driving state variables; and
- an actuator to carry out a stabilization intervention when a rollover-critical situation is detected;

wherein using the sensor system, information is ascertained on a mass of the vehicle and the rollover stabilization algorithm is configured so that a behavior of the control system is a function of the mass of the vehicle.

23. (Previously Presented) The vehicle dynamics control system as recited in claim 22, wherein the control unit includes an algorithm for estimating the mass of the vehicle.

24. (Previously Presented) The vehicle dynamics control system as recited in claim 22, wherein the control unit includes an algorithm for estimating information on a center of gravity of the vehicle, the estimated information being taken into consideration together with the mass of the vehicle during a rollover stabilization.

25. (Previously Presented) The vehicle-dynamics control system as recited in claim 24, wherein the information on the center of gravity of the vehicle is derived from an estimated characteristic speed.

**U.S. Patent Application No. 10/575,768  
Attorney Docket No. 10191/4217  
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26. (Previously Presented) The vehicle dynamics control system as recited in claim 22, wherein a sensor system includes sensors using a ratio of contact patch forces of opposite wheels is able to be ascertained.

27. (New) The method as recited in claim 14, wherein information is estimated on a center of gravity of the vehicle, wherein the rollover stabilization algorithm is executed as a function of the vehicle mass and the information on the center of gravity of the vehicle, wherein the information on the center of gravity of the vehicle is at least one of (i) derived from an estimated characteristic speed, and (ii) ascertained from a ratio of contact patch forces of opposite wheels during cornering, and wherein one of an indicator variable or a characteristic property of the rollover stabilization algorithm is determined as a function of one of the mass of the vehicle or the mass of the vehicle and information on the center of gravity of the vehicle, the release of deactivation of the stabilization intervention being a function of the indicator variable.

28. (New) The method as recited in claim 27, wherein the information on the center of gravity of the vehicle is ascertained from the estimated characteristic speed and from a ratio of the contact patch forces of opposite wheels during cornering.

29. (New) The method as recited in claim 27, wherein one of a control threshold value, a system deviation or a controlled variable of the rollover stabilization algorithm is determined as a function of one of the mass of the vehicle or the mass of the vehicle and the information on the center of gravity of the vehicle.